



LT3010 CO₂ LASER EXCITER SPECIFICATIONS



ELECTRICAL

Power Input: 115VAC, 4A, 50/60 Hz
Output: 0-30 KVDC, 1-10mA
Polarity: Positive
Current Regulation: 9 μ A, at 6mA for standard laser tube load
Current Ripple: 0.05% RMS at 6mA

MECHANICAL

Size: 19" x 14" x 5.5" (48cm x 36cm x 14cm)
Weight: 44 lbs (20 kg)
Finish: Black baked enamel, white lettering

FRONT PANEL:

| | |
|-----------------|--|
| KEY SWITCH: | Main power ON-OFF control |
| POWER: | Green lamp POWER on indicator |
| H.V. START: | Start and adjust high voltage from 0 to maximum |
| ADJUST | |
| HIGH VOLTAGE: | Red lamp indicates high voltage circuit is energised |
| CURRENT ADJUST: | Calibrated dial for manual current setting |
| H.V. STANDBY: | Amber lamp turns on after warmup |
| CENTER: | Green LED indicates high voltage setting is optimum |
| LOW: | Red LED indicates insufficient high voltage |
| HIGH: | Red LED indicates high voltage setting is greater than optimum |
| D.C. KILOVOLTS: | Analog meter calibrated for total high voltage output |
| D.C. MILLIAMPS: | Analog meter display of laser discharge current |

REAR PANEL:

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|--------------|--|
| AC IN/ FUSE: | Main power input, 4A fuse |
| GROUND: | Safety binding post for external Earth connection |
| REMOTE: | 2-pin connector with shorting plug |
| INTERLOCK: | 4-pin connector inter-connects control signals to laser head |
| H.V. OUT: | Polarized high voltage connector |
| O.G. OUT: | BNC output, 0 to 10 VDC for remote current monitoring |



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